



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010482
CERTIFICATION DATE: December 4, 2013
DATE RECERTIFICATION DUE: June 2, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

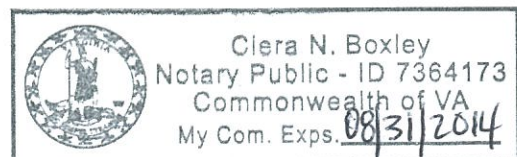
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of
December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



TLN

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 12/9/2013

HMS
NMJ

Instrument Serial Number: 010482

As of 09-Dec-13

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
04-Dec-13	04-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
17-Jun-13	17-Jun-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
08-Jan-13	08-Jan-13	DBH (21250)	CERTIFIED.
17-Jul-12	17-Jul-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
21-Mar-12	21-Mar-12	SED (24178)	CERTIFIED.
17-Feb-12	17-Feb-12	SED (24178)	REPLACED AND TESTED FUEL CELL MODULE. CALIBRATED AND CERTIFIED.
24-Oct-11	30-Jun-11	HMS (18910)	REPLACED DRY GAS STANDARD.
22-Sep-11	30-Jun-11	HMS (18910)	REPLACED DRY GAS STANDARD.
30-Jun-11	30-Jun-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
04-Apr-11	01-Feb-11	HMS (18910)	REPLACED DRY GAS STANDARD.
01-Feb-11	01-Feb-11	HMS (18910)	CALIBRATED AND CERTIFIED.
04-Jan-11	11-Aug-10	HMS (18910)	REPLACED DRY GAS STANDARD.
12-Oct-10	11-Aug-10	HMS (18910)	REPLACED DRY GAS STANDARD.
11-Aug-10	11-Aug-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
10-Jun-10	01-Mar-10	HMS (18910)	REPLACED DRY GAS STANDARD.
06-May-10	01-Mar-10	HMS (18910)	REPLACED DRY GAS STANDARD.
01-Mar-10	01-Mar-10	HMS (18910)	CERTIFIED
20-Jan-10	23-Sep-09	HMS (18910)	REPLACED DRY GAS STANDARD.
23-Sep-09	23-Sep-09	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED.
09-Jul-09	21-Apr-09	HMS (18910)	REPLACED DRY GAS STANDARD.
21-Apr-09	21-Apr-09	HMS (18910)	CERTIFIED.
04-Mar-09	04-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
25-Dec-08	25-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HMS
MSK

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010482 Worksheet Start Date 12/4/2013

Location Alleghany County

Address 268 West Main St., Covington, VA 24426

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no. New serial no.

E-Seek
Keyboard
Printer
UPS

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

50
2 pads

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010482

Certification Date 12/4/2013

Instrument Barometer (mm HG) 728

Reference Barometer (mm HG) 730

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.239	0.231	0.246	Sample 2	0.239
Precision		sample min	sample max	Sample 3	
0.001		0.238	0.239		0.238

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.144	0.139	0.148	Sample 2	0.144
Precision		sample min	sample max	Sample 3	
0.001		0.143	0.144		0.143

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.077	0.074	0.080	Sample 2	0.077
Precision		sample min	sample max	Sample 3	
0.001		0.076	0.077		0.076

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	
0		0.018	0.018		0.018

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-45

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.096	0.093	0.099	Sample 2	0.097
Precision		sample min	sample max	Sample 3	
0		0.097	0.097		0.097

DFS Technician

Heather M. Starn

Date

12/9/13

Issuing Analyst

Mehsa Kennedy

Date

12/10/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2

TLN




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HNS and RSK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/04/2013
TEST EQUIPMENT NUMBER 010482		

RESULTS: TIME SAMPLE TAKEN 12:17 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 04 Dec 2013 at 12:50

Test
HWS
msk

Test Results

Instrument Serial Number 010482

Test # 002816 Subject Test

Test Location 1 Department of

Test Date 04 Dec 2013

Test Location 2 Forensic Science

Test Time 12:11

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name STANTON

Agency DFS Central Lab

Card Serial Number 118910

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name HEATHER

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 04 Dec 2013

End Time 12:18

Result Time 12:17

Result Date 04 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:11

Data Type BLK

Sample Value 0.000

Sample Time 12:12

Data Type CHK

Sample Value 0.097

Sample Time 12:13

Data Type BLK

Sample Value 0.000

Sample Time 12:14

Data Type SUBJ

Sample Value 0.000

Sample Time 12:14

Data Type BLK

Sample Value 0.000

Sample Time 12:15

Data Type SUBJ

Sample Value 0.000

Sample Time 12:17

Data Type BLK

Sample Value 0.000

Sample Time 12:18

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG230501-45

Standard Expiration Date 10/31/2014

Tank Pressure 1061

Barometric Pressure 728 mmHg

Blow Sample Number 1

Blow Duration 3.36 sec

Blow Volume 1764 cc

End-of-Blow Time 12:14

Blow Sample Number 2

Blow Duration 3.37 sec

Blow Volume 1750 cc

End-of-Blow Time 12:17

Tamper Evident Stamp b39a6bc8

Test Status Code 0

Test Status Success

HMS
msk

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010482 Test Number: 2817
Test Date: 12/04/2013 Test Time: 12:19 EST

Technician Initials: HMS

Dry Gas Target: 0.096

Lot Number: AG230501-45 Exp Date: 10/31/2014

Tank Pressure: 1056 psi Barometric Pressure: 728 mmHg

Test	g/210L	Time
DIAG	Pass	12:19
BLK	0.000	12:20
CHK	0.096	12:21
BLK	0.000	12:22
CHK	0.096	12:23
BLK	0.000	12:24
CHK	0.096	12:25
BLK	0.000	12:26

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS
12/4/13

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010482 Test Number: 2818

Test Date: 12/04/2013 Test Time: 12:28 EST

Dry Gas Target: 0.096

Lot Number: AG230501-45 Exp Date: 10/31/2014

Tank Pressure: 1041 psi Barometric Pressure: 728 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:29
CHK	0.096	12:29
BLK	0.000	12:31
CHK	0.096	12:32
BLK	0.000	12:33
CHK	0.096	12:34

Test Status: *Success*

Calibration CRC: 736B62F8

the
nsk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010482 Test Number: 2819

Test Date: 12/04/2013 Test Time: 12:36 EST

Dry Gas Target: 0.287

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 85 psi Barometric Pressure: 728 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:37
CHK	0.287	12:38
BLK	0.000	12:39
CHK	0.287	12:40
BLK	0.000	12:41
CHK	0.286	12:42

Test Status: Success

Calibration CRC: 736B62F8

Aug
msk

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010482

System Date: 12/04/2013

System Time: 13:06 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

HLG
NWK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010482 Test Number: 2820

Test Date: 12/04/2013 Test Time: 13:08 EST

Dry Gas Target: 0.096

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 566 psi Barometric Pressure: 727 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:09
CAL	0.096	13:09

Test Status: *Success*

Calibration CRC: 494D7BAD

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010482 Test Number: 2821
Test Date: 12/04/2013 Test Time: 13:12 EST

Technician Initials: HMS

Dry Gas Target: 0.239

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 213 psi Barometric Pressure: 727 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:12
BLK	0.000	13:13
CHK	0.239	13:14
BLK	0.000	13:15
CHK	0.239	13:16
BLK	0.000	13:17
CHK	0.238	13:18
BLK	0.000	13:19

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010482 Test Number: 2822
Test Date: 12/04/2013 Test Time: 13:20 EST

Technician Initials: HMS

Dry Gas Target: 0.144

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 659 psi Barometric Pressure: 727 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:21
BLK	0.000	13:22
CHK	0.144	13:22
BLK	0.000	13:24
CHK	0.144	13:24
BLK	0.000	13:26
CHK	0.143	13:26
BLK	0.000	13:28

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010482 Test Number: 2823
Test Date: 12/04/2013 Test Time: 13:29 EST

Technician Initials: HMS

Dry Gas Target: 0.077

Lot Number: 07713080I2-04 Exp Date: 05/01/2015

Tank Pressure: 742 psi Barometric Pressure: 727 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:29
BLK	0.000	13:30
CHK	0.076	13:31
BLK	0.000	13:32
CHK	0.077	13:33
BLK	0.000	13:34
CHK	0.076	13:35
BLK	0.000	13:36

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

AMO
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010482 Test Number: 2824
Test Date: 12/04/2013 Test Time: 13:38 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015
Tank Pressure: 840 psi Barometric Pressure: 727 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:38
BLK	0.000	13:39
CHK	0.018	13:39
BLK	0.000	13:41
CHK	0.018	13:41
BLK	0.000	13:43
CHK	0.018	13:43
BLK	0.000	13:45

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS
WK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010482 Test Number: 2825

Test Date: 12/04/2013 Test Time: 13:47 EST

Dry Gas Target: 0.287

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 75 psi Barometric Pressure: 727 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:47
CHK	0.291	13:48
BLK	0.000	13:50
CHK	0.291	13:51
BLK	0.000	13:52
CHK	0.290	13:53

Test Status: *Success*

Calibration CRC: 494D7BAD

HMS
Nisk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010482 Test Number: 2826

Test Date: 12/04/2013 Test Time: 13:55 EST

Dry Gas Target: 0.096

Lot Number: AG230501-45 Exp Date: 10/31/2014

Tank Pressure: 1017 psi Barometric Pressure: 726 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:56
CHK	0.097	13:57
BLK	0.000	13:58
CHK	0.097	13:59
BLK	0.000	14:00
CHK	0.097	14:01

Test Status: *Success*

Calibration CRC: 494D7BAD




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

AMS
MSK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/04/2013
TEST EQUIPMENT NUMBER 010482		

RESULTS: TIME SAMPLE TAKEN 14:09 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:14

AMS
ASK

Test Results

Instrument Serial Number 010482

Test # 002827 Subject Test

Test Location 1 Department of
Test Date 04 Dec 2013

Test Location 2 Forensic Science
Test Time 14:03
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Dec 2013 End Time 14:10

Result Time 14:09

Result Date 04 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:03

Data Type BLK

Sample Value 0.000

Sample Time 14:04

Data Type CHK

Sample Value 0.097

Sample Time 14:05

Data Type BLK

Sample Value 0.000

Sample Time 14:06

Data Type SUBJ

Sample Value 0.000

Sample Time 14:07

Data Type BLK

Sample Value 0.000

Sample Time 14:08

Data Type SUBJ

Sample Value 0.000

Sample Time 14:09

Data Type BLK

Sample Value 0.000

Sample Time 14:10

Standard Type Dry Gas Std

Standard Value 0.096

Standard Lot Number AG230501-45

Standard Expiration Date 10/31/2014

Tank Pressure 1007

Barometric Pressure 727 mmHg

Blow Sample Number 1 Blow Duration 3.33 sec

Blow Volume 1748 cc End-of-Blow Time 14:07

Blow Sample Number 2 Blow Duration 3.41 sec

Blow Volume 1756 cc End-of-Blow Time 14:09

Tamper Evident Stamp f1acb53c

Test Status Code 0

Test Status Success